

Lateral Radius 120 to 900 Days

Test For Normality 120 Days
Descriptive Statistics

Lateral	
Mean	4.63125
Standard Err	0.24347512
Median	4.4
Mode	4.4
Standard Dev	0.68865163
Sample Vari	0.47424107
Kurtosis	-0.4323306
Skewness	0.89302285
Range	1.9
Maximum	5.7
Mmimum	3.8
Sum	37.05
Count	8
Geometric M	4.5887851
Harmonic M	4.54879156
AAD	0.5256625
MAD	0.25
IQR	0.6375

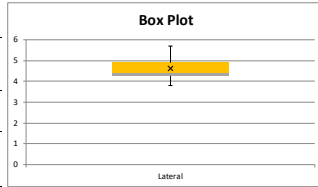
Box Plot

Lateral	
Min	3.8
Q1-Min	0.4625
Med-Q1	0.1375
Q3-Med	0.5
Max-Q3	0.8
Mean	4.63125
Min	3.8
Q1	4.2625
Median	4.4
Q3	4.9
Max	5.7
Mean	4.63125
Grand Min	0

Outliers

Shapiro-Wilk Test

Lateral	
W-stat	0.85563244
p-value	0.10858251
alpha	0.05
normal	yes
d'Agostino-Pearson	
DA-stat	1.49507796
p-value	0.47353049
alpha	0.05
normal	yes



Test For Normality 900 Days
Descriptive Statistics

Lateral	
Mean	8.775
Standard Err	0.371203
Median	8.625
Mode	#N/A
Standard Dev	0.90925794
Sample Vari	0.82675
Kurtosis	-0.412978
Skewness	0.13828122
Range	2.55
Maximum	10.05
Mmimum	7.5
Sum	52.65
Count	6
Geometric M	8.73572645
Harmonic M	8.69651699
AAD	0.68333333
MAD	0.625
IQR	0.975

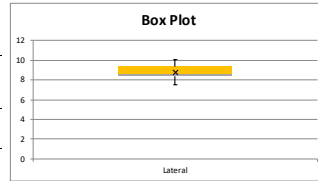
Box Plot

Lateral	
Min	7.5
Q1-Min	0.8625
Med-Q1	0.2625
Q3-Med	0.7125
Max-Q3	0.7125
Mean	8.775
Min	7.5
Q1	8.3625
Median	8.625
Q3	9.3375
Max	10.05
Mean	8.775
Grand Min	0

Outliers

Shapiro-Wilk Test

Lateral	
W-stat	0.97123294
p-value	0.90061213
alpha	0.05
normal	yes
d'Agostino-Pearson	
DA-stat	0.08305214
p-value	0.95932433
alpha	0.05
normal	yes



Lateral Radius 120 to 900 Days

T Test: Two Independent Samples

SUMMARY		Hyp Mean D		0	
Groups	Count	Mean	Variance	Cohen d	
Lateral	6	8.775	0.82675		
Lateral	8	4.63125	0.47424107		
Pooled		4.14375	0.62111979	5.25782179	

Effect size		Effect size	
Choen's d score		Choen's r score	
0.2	Small	0.1	Small
0.5	Medium	0.3	Medium
0.8	Large	0.5	Large

T TEST: Equal Variances

		Alpha		0.05			
std err	t-stat	df	p-value	t-crit	lower	upper	sig
One Tail	0.42562888	9.73559418	12	2.3901E-07	1.78228756		yes
Two Tail	0.42562888	9.73559418	12	4.7802E-07	2.17881283	3.21638435	5.07111565

T TEST: Unequal Variances

		Alpha		0.05			
std err	t-stat	df	p-value	t-crit	lower	upper	sig
One Tail	0.4439277	9.3342903	9.03334098	3.0838E-06	1.83234293		yes
Two Tail	0.4439277	9.3342903	9.03334098	6.1675E-06	2.26088506	3.1400805	5.1474195

The average radius of epiphyseal cupping lateral with respect to the tubercle increased from 120-days-old (4.63 ± .069 mm) to 900-days-old (8.78 ± 0.91 mm)
This difference (4.14 mm), 95% CI [3.14, 5.15] was statistically significant(t(9.03) = 9.33, P < .001, with a large effect size(d = 5.26).

